$g(x) = x^3 + x^2 + 1$ 

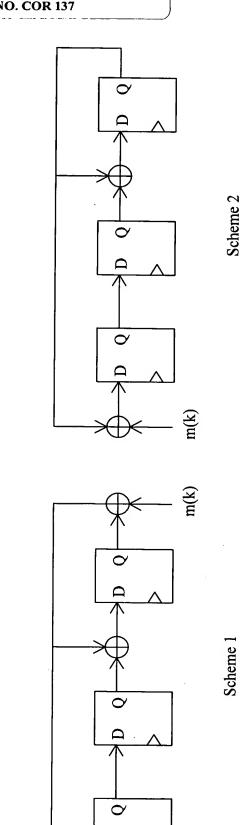
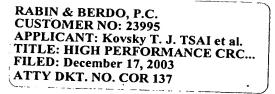
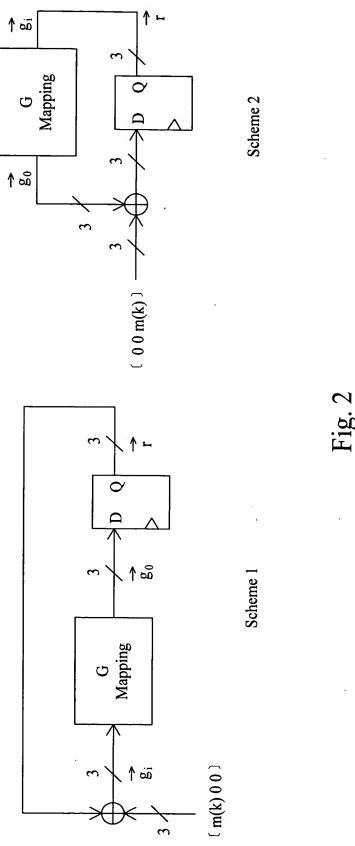


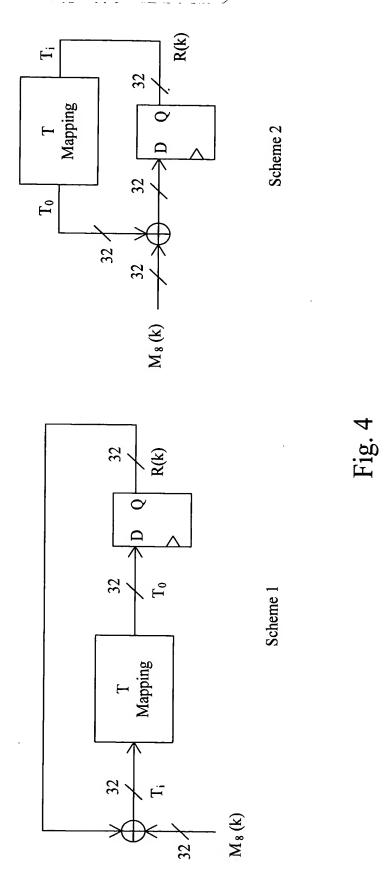
Fig. 1





	/	_		,	,
	Row31	0x40000000	)	Row31	0x00000001
	Row30	0x20000000	$G_{-1} =$	Row30	0x800000001
	Row29	0x10000000		Row29	0x40000000
	Row28	0x08000000		Row28	0x20000000
	Row27	0x04000000		Row27	0x10000000
	Row26	0x82000000		Row26	0x08000000
	Row25	0x01000000		Row25	0x04000001
	Row24	0x00800000		Row24	0x02000000
	Row23	0x80400000		Row23	0x01000000
	Row22	0x80200000		Row22	0x00800001
	Row21	0x00100000		Row21	0x00400001
	Row20	0x00080000		Row20	0x00200000
	Row19	0x00040000		Row19	0x00100000
	Row18	0x00020000		Row18	0x00080000
	Row17	0x00010000		Row17	0x00040000
G =	Row16	0x80008000		Row16	0x00020000
J	Row15	0x00004000		Row15	0x00010001
	Row14	0x00002000		Row14	0x00008000
	Row13	0x00001000		Row13	0x00004000
	Row12	0x80000800		Row12	0x00002000
	Row11	0x80000400		Row11	0x00001001
	Row10	0x80000200		Row10	0x00000801
	Row9	$0 \times 00000100$		Row9	0x00000401
	Row8	0x80000080		Row8	0x00000200
	Row7	0x80000040		Row7	0x00000101
	Row6	0x00000020		Row6	0x00000081
	Row5	0x80000010		Row5	0x00000040
	Row4	0x80000008		Row4	0x00000021
	Row3	0x00000004		Row3	0x00000011
	Row2	0x80000002		Row2	0x00000008
	Row1	0x80000001		Row1	0x00000005
	Row0	0x80000000		Row0	0x00000003
	\	/	`	\	/

Fig. 3



	,	,			,	`	
	Row31	0x20800000	2		Row31	0x000000d5	5
	Row30	0x90400000	3		Row30	0x000000d3	4
	Row29	0xc8200000	4		Row29	0x000000035	4
	Row28	0x64100000	4		Row28	0x00000033	3
	Row27	0xb2080000	5		Row27	0x0000001a	3
	Row26	0x59040000	5		Row26	0x000000000000000000000000000000000000	2
	Row25	0x0c020000	3		Row25	0x00000006	5
	Row24	0x86010000	4		Row24	0x000000db	5
	Row23	0x43008000	4		Row23	0x80000035	5
	Row22	0x01004000	2		Row22	0x40000055	7
	Row21	0x20002000	2	$T^{-1} = G^{-8} =$	Row21	0x200000b2	5
	Row20	0x10001000	2		Row20	0x10000059	5
	Row19	0x88000800	3		Row19	0x0800002c	4
	Row18	0xc4000400	4		Row18	0x04000016	4
	Row17	0x62000200	4		Row17	0x0200000b	4
$T = G_8 =$	Row16	0x31000100	4		Row16	0x01000005	3
1 - 0 -	Row15	0xb8000080	5		Row15	0x008000d7	7
	Row14	0xdc000040	6		Row14	0x0040006b	6
	Row13	0xee000020	7		Row13	0x00200035	5
	Row12	0x77000010	7		Row12	0x0010001a	4
	Row11	0x1b000008	5		Row11	0x000800d8	5
	Row10	0x2d000004	5		Row10	0x000400b9	6
	Row9	0x36000002	5		Row9	0x00040089	4
	Row8	0x1b000001	5		Row8	0x00020044	3
	Row7	0xad000000	5		Row7	0x000080f7	8
	Row6	0xf6000000	6		Row6	0x000040ae	6
	Row5	0xfb000000	7		Row5	0x00002057	6
	Row4	0x5d000000	5		Row4	0x000010fe	8
	Row3	0x8e000000	4		Row3	0x000008aa	5
	Row2	0xc7000000	5		Row2	0x00000455	5
	Row1	0xc3000000	4		Row1	0x000002ff	9
	Row0	0x41000000	2		Row0	0x000001aa	5
	\	/			\	/	

Fig. 5

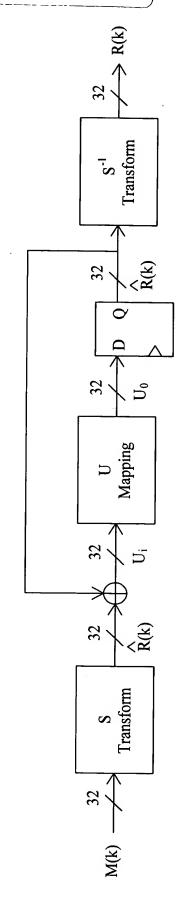


Fig. 6

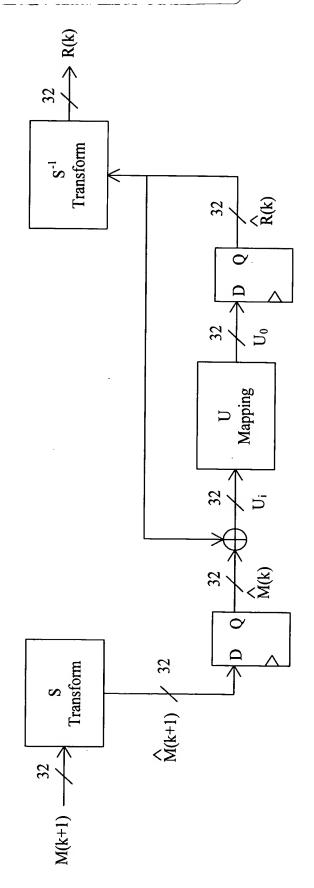


Fig. 7

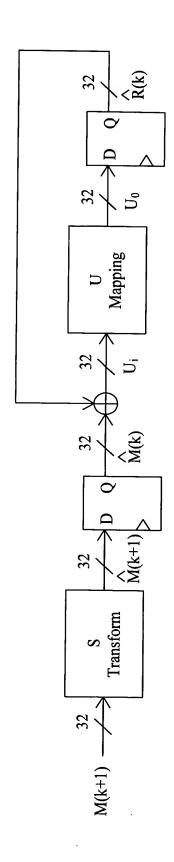


Fig. 8

```
Row31
                 0xfb808a20
                              12
        Row30
                0x7dc04590
                              13
        Row29
                0xbee022c8
                              14
        Row28
                0x5e70116d
                              15
        Row27
                0x2fb809b2
                              15
        Row26
                0x97dc0459
                              15
        Row25
                0xb06e8804
                              11
        Row24
                0x5837448e
                              14
        Row23
                0xac1ba243
                              14
        Row22
                0xac8d5b00
                              13
        Row21
                0xad462620
                              12
        Row20
                0x57a31311
                              14
        Row19
                0x2b518888
                              11
        Row18
                0x95a8c4cc
                              14
        Row17
                0xcad46262
                              14
        Row16
                0x646a3130
                              12
U_{32} =
        Row15
                0x483593b9
                              15
        Row14
                0x249ac8d4
                              13
        Row13
                0x924d64e6
                              15
        Row12
                0x6610e0b0
                              11
        Row11
                0x0fd1ce00
                              13
        Row10
                0xb4096225
                              12
        Row9
                0x20843b3f
                              14
        Row8
                0x91c21c1a
                              12
        Row7
                0x33e185a5
                              15
        Row6
                0x627048fe
                              15
        Row5
                0x313824fb
                              15
        Row4
                0xe21c9854
                              13
        Row3
                0x8a0ec786
                              15
        Row2
                0x4f09a449
                             13
        Row1
                0x18033bc2
                              12
        Row0
                0xf6011640
                             11
```

Fig. 9

	/	\	
	Row31	0x80000000	1
	Row30	0x40000000	1
	Row29	0x20000000	1
	Row28	0x10000000	1
	Row27	0x08000000	1
	Row26	0x04000000	.1
	Row25	0x02000000	1
	Row24	0x01000000	1
	Row23	0x00800000	1
	Row22	0x00400000	1
	Row21	$0 \times 00200000$	1
	Row20	$0 \times 00100000$	1
	Row19	0x00080000	1
	Row18	0x00040000	1
	Row17	0x00020000	1
$S_{32} = S_{32}^{-1} =$	Row16	$0 \times 00010000$	1
$S_{32} - S_{32} -$	Row15	0x00008000	1
	Row14	0x00004000	1
	Row13	0x00002000	1
	Row12	0x01001001	3
	Row11	0x00000900	2
	Row10	0x00000400	1
	Row9	$0 \times 00000200$	1
	Row8	0x00000100	1
	Row7	$0 \times 000000080$	1
	Row6	0x00000040	1
	Row5	0x00000020	1
	Row4	$0 \times 00000010$	1
	Row3	0x00000008	1
	Row2	0x0000000c	2
	Row1	0x00000002	1
	Row0	0x00000001	1
	\	/	

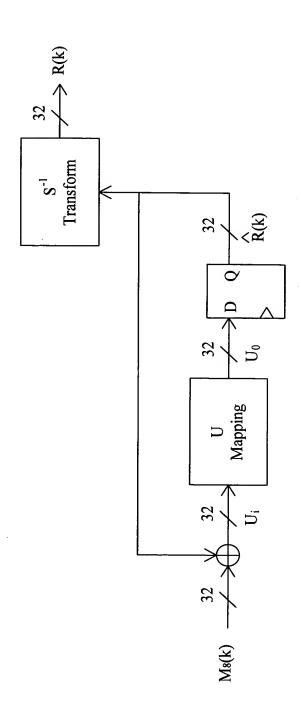
Fig. 10

```
Row31
                    0x20800000
                                  2
           Row30
                    0x90400000
                                  3
           Row29
                    0xc8200000
                                  4
           Row28
                    0x64100000
                                  4
           Row27
                                  5
                    0xb2080000
                                  5
           Row26
                    0x59040000
                                  3
           Row25
                    0x0c020000
           Row24
                    0x86010000
                                  4
           Row23
                                  3
                    0x03008000
           Row22
                                  3
                    0x21004000
           Row21
                    0x00002000
                                  1
           Row20
                    0x00001100
                                  2
           Row19
                    0x88000900
                                  4
           Row18
                    0xc4000400
                                  4
           Row17
                    0x62000200
                                  4
           Row16
                    0x31000100
                                  4
\mathbf{U}_{\mathrm{tx\_08}} =
           Row15
                                  3
                    0x28000080
                                  3
           Row14
                    0x04200040
           Row13
                    0x22200020
                                  4
           Row12
                                  3
                    0x08100010
           Row11
                                  2
                    0x00000009
                                  4
           Row10
                    0x2c000004
                                  5
           Row9
                    0x36000002
           Row8
                                  5
                    0x1b000001
           Row7
                    0x8c004000
                                  4
           Row6
                    0x92100000
                                  4
           Row5
                                  4
                    0xa2040000
           Row4
                    0x1c000000
                                  3
           Row3
                    0x8e000000
                                  4
           Row2
                    0x41010000
                                  3
           Row1
                    0xc3000000
                                  4
           Row0
                                  2
                    0x41000000
```

Fig. 11

	/		\
	Row31	0x80000000	1
	Row30	0x40000000	1
	Row29	0x20000000	1
	Row28	0x10000000	1
	Row27	0x08000000	1
	Row26	0x04000000	1
	Row25	0x02000000	1
	Row24	0x01000000	1
	Row23	0x00800000	1
	Row22	0x00400000	1
	Row21	0x00200000	1
	Row20	0x00100000	1
	Row19	0x00080000	1
_	Row18	0x00040000	1
$S_{tx_08} = S_{tx_08}^{-1} =$	Row17	0x00020000	1
00	Row16	0x00010000	1
	Row15	0x40008000	2
	Row14	0x20004000	2 2
	Row13	0x20002000	2
	Row12	$0 \times 10001100$	3
	Row11	$0 \times 00000900$	2
	Row10	$0 \times 00000400$	1
	Row9	0x00000200	1
	Row8	$0 \times 00000100$	1
	Row7	$0 \times 00400080$	2
	Row6	0x10000040	2 2 2
	Row5	0x04000020	2
	Row4	$0 \times 00000011$	
	Row3	0x00000008	1
	Row2	0x01000004	2
	Row1	0x00000002	1
	Row0	0x00000001	1
	\		/

Fig. 12



ATTY DKT. NO. COR 137

Row31 0x20800000 2 Row30 0x90400000 3 Row29 0xc8200000 4 Row28 0x64100000 4 5 Row27 0xb2080000 5 Row26 0x59040000 3 Row25 0x0c020000Row24 4 0x86010000 Row23 3 0x030080003 Row22 0x21004000 2 Row21 0x00022000Row20 2 0x00001040Row19 0x88000900 4 Row18 4 0xc4000400 Row17 0x62000200 4 Row16 0x310001004  $U_{rx\_08} =$ Row15 3 0x28000080 Row14 0x042000403 Row13 0x002000303 Row12 0x085000104 Row11 0x000000092 Row10 0x2c000004 4 Row9 0x36000002 5 Row8 5 0x1b000001 Row7 0x8c004000 4 Row6 0x92100000 4 Row5 2 0x00400002 Row4 2 0x04040000Row3 0x8e000000 4 Row2 0x41010000 3 Row1 0xc3000000 4 Row0 0x41000000 2

Fig. 14

	/		\		,	,	
	Row31	0x80000000	1		Row31	0x80000000	1
	Row30	0x40000000	1		Row30	0x40000000	1
	Row29	0x20000000	1		Row29	0x100000000000000000000000000000000000	1
	Row28	0x10000000	1		Row28	0x10000000	1
	Row27	0x08000000	1		Row27	0x08000000	1
	Row26	0x04000000	1		Row26	0x04000000	1
	Row25	0x02000000	1	-	Row25	0x02000000	1
	Row24	0x01000000	1		Row24	0x01000000	1
	Row23	0x00800000	1		Row23	0x00800000	1
	Row22	0x00400000	1	į	Row22	$0 \times 00400000$	1
	Row21	0x00200000	1	$S_{rx_08}^{-1} =$	Row21	0x00200000	1
	Row20	0x00100000	1		Row20	$0 \times 00100000$	1
	Row19	0x00080000	1		Row19	0x00080000	1
	Row18	0x00040000	1		Row18	0x00040000	1
$S_{rx\_08} =$	Row17	0x00020000	1		Row17	0x00020000	1
00	Row16	0x00010000	1		Row16	0x00010000	1
	Row15	0x40008000	2		Row15	0x40008000	2
	Row14	0x20004000	2		Row14	0x20004000	2
	Row13	0x20022000	3		Row13	0x20022000	3
	Row12	0x $00001040$	2		Row12	0x10001040	3
	Row11	0x00000900	2		Row11	0x00000900	2
	Row10	0x00000400	1		Row10	0x00000400	1
	Row9	0x00000200	1		Row9	0x00000200	1
	Row8	$0 \times 00000100$	1		Row8	0x00000100	1
	Row7	$0 \times 00400080$	2		Row7	0x00400080	2
i	Row6	0x10000040	2		Row6	0x10000040	2
=	Row5	0x40000230	4		Row5	0x44000230	5
	Row4	0x04000010	2		Row4	0x04000010	2
	Row3	0x00000008	1		Row3	0x00000008	1
	Row2	0x01000004	2		Row2	0x01000004	2
	Row1	0x00000002	1		Row1	0x00000002	1
	Row0	0x00000001	1 )		Row0	0x00000001	1
	`				\	/	

Fig. 15

